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	Application No.	Applicant(s)	
Notice of Allowability	09/964,927 Examiner 0.40	MCCARTHY ET AL.	
	Daniel J. Petkovsek	2874	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS ( herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	ars on the cover sheet with the co (OR REMAINS) CLOSED in this applied or other appropriate communication GHTS. This application is subject to	plication. If not include will be mailed in due	ed course. <b>THIS</b>
1. A This communication is responsive to AF response filed July	<u>/ 13, 2005</u> .		
2. $\boxtimes$ The allowed claim(s) is/are <u>1-6 and 9-25</u> .			
3. $igotimes$ The drawings filed on <u>02 March 2004</u> are accepted by the E	Examiner.		
4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be submited in INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the certification of the depose attached Examiner's comment regarding REQUIREMENT in the depose atta	been received.  been received in Application No cuments have been received in this communication to file a reply ENT of this application.  tted. Note the attached EXAMINER is reason(s) why the oath or declara t be submitted. on's Patent Drawing Review ( PTO- Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL re	national stage applicate complying with the reconstruction is deficient.  948) attached office action of the diagram of the front (not the diagram).	quirements OTICE OF
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	(PTO-413), te <u>2005</u> 0622 ment/Comment	wance

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

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# **DETAILED ACTION**

This office action is in response to the after final arguments filed July 13, 2005.

Claims 1-6, and 9-25 are pending.

#### Election/Restrictions

1. This application is in condition for allowance except for the presence of claims 7, 8, 26, and 27, claims that were non-elected without traverse. Accordingly, claims 7, 8, 26, and 27 have been cancelled.

# Allowable Subject Matter

2. Claims 1-6, and 9-25 are allowed. The following is an examiner's statement of reasons for allowance: the relevant prior art of record does not teach or reasonably suggest a fiber shaped device for producing quantum effects in which control paths are physically connected to quantum dots within a material, and which these control paths actuate the quantum dots to form "artificial atoms". It is noted that the declaration of Mr. Robert Metzger, filed June 17, 2004, states that the arrangement of quantum dots with control paths can form these "artificial atoms". The closest prior art of record (Stintz et al. US 2002/0114367, LoCasclo et al. US 2002/0041736) teaches fiber shaped materials in which quantum dots are optically coupled to the fiber/waveguide, but these quantum dots are not controlled by control paths to create "artificial atoms", but instead the quantum dots of the prior art of responding to an optical stimulus when light travels through the fiber/waveguide, and, in particular, are used for amplifying/laser means when stimulated.

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3. It is noted that Applicant's arguments (on the record, filed July 13, 2005) to the effective filing date of Yerushalmi et al. '927 are persuasive.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Response to Arguments

4. Applicant's arguments, see response, filed July 13, 2005, with respect to the effective filing date of the Yerushalmi et al. '927 reference, as to the '635 provisional, have been fully considered and are persuasive. The rejections of claims 1, 2, 5, 6, 9, 10, 13, 14, 16-18, and 20-25 have been withdrawn.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Petkovsek whose telephone number is (571) 272-2355. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Daniel Petkovsek July 21, 2005

John D. Lea Primary Examiner

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claims 7-8 (Canceled).

Claims 26-27 (Canceled).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Petkovsek whose telephone number is (571) 272-2355. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Daniel Petkovsek July 21, 2005

John D. Lee Primary Examiner